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Detection of fungal infections using radiolabeled antifungal agents.
Curr Drug Targets. 2005 Dec;6(8):945-54. Review.
PMID: 16375677 [PubMed - indexed for MEDLINE]

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Constitutive expression of human lactoferrin and its N-lobe in rice plants to confer disease resistance.
Biochem Cell Biol. 2005 Apr;83(2):239-49.
PMID: 15864332 [PubMed - indexed for MEDLINE]

☐ **4:** [Tsuda H, Ohshima Y, Nomoto H, Fujita K, Matsuda E, Iigo M, Takasuka N, Moore MA.](#) [Related Articles, Links](#)

Cancer prevention by natural compounds.
Drug Metab Pharmacokinet. 2004 Aug;19(4):245-63. Review.
PMID: 15499193 [PubMed - indexed for MEDLINE]

☐ **5:** [Li Y, Geng Y, Song H, Zheng G, Huan L, Qiu B.](#) [Related Articles, Links](#)

Expression of a human lactoferrin N-lobe in Nicotiana benthamiana with potato virus X-based agroinfection.
Biotechnol Lett. 2004 Jun;26(12):953-7.
PMID: 15269518 [PubMed - indexed for MEDLINE]

☐ **6:** [Kwon SY, Jo SH, Lee OS, Choi SM, Kwak SS, Lee HS.](#) [Related Articles, Links](#)


Transgenic ginseng cell lines that produce high levels of a human lactoferrin.
Planta Med. 2003 Nov;69(11):1005-8.
PMID: 14735437 [PubMed - indexed for MEDLINE]

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Comparative analysis of the site-specific N-glycosylation of human lactoferrin produced in maize and tobacco plants.
Eur J Biochem. 2003 Aug;270(15):3235-42.
PMID: 12869199 [PubMed - indexed for MEDLINE]


☐ **8:** [Samyn-Petit B, Gruber V, Flahaut C, Wajda-Dubos JP, Farrer S, Pons A.](#) [Related Articles, Links](#)

Desmaizieres G, Slomianny MC, Theisen M, Delannoy P.

-  N-glycosylation potential of maize: the human lactoferrin used as a model.
Glycoconj J. 2001 Jul;18(7):519-27.
PMID: 12151713 [PubMed - indexed for MEDLINE]


☐ **9:** Chong DK, Langridge WH.

[Related Articles](#), [Links](#)

-  Expression of full-length bioactive antimicrobial human lactoferrin in potato plants.
Transgenic Res. 2000 Feb;9(1):71-8.
PMID: 10853271 [PubMed - indexed for MEDLINE]


☐ **10:** Salmon V, Legrand D, Slomianny MC, el Yazidi I, Spik G, Gruber V, Bournat P, Olgner B, Mison D, Theisen M, Merot B.

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-  Production of human lactoferrin in transgenic tobacco plants.
Protein Expr Purif. 1998 Jun;13(1):127-35.
PMID: 9631525 [PubMed - indexed for MEDLINE]


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Klin Med (Mosk). 1998;76(3):21-6. Russian.
PMID: 9575742 [PubMed - indexed for MEDLINE]


☐ **12:** Ying L, Furmanski P.

[Related Articles](#), [Links](#)

-  Iron binding to human lactoferrin alters reactivity of the protein with plant lectins.
Biochem Biophys Res Commun. 1993 Oct 29;196(2):686-91.
PMID: 8240344 [PubMed - indexed for MEDLINE]

☐ **13:** Benhamou N.

[Related Articles](#), [Links](#)

-  Ultrastructural localization of DNA on ultrathin sections of resin-embedded tissues by the lactoferrin-gold complex.
J Electron Microsc Tech. 1989 May;12(1):1-10.
PMID: 2754496 [PubMed - indexed for MEDLINE]

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Process development and economic evaluation of recombinant human lactoferrin expressed in rice grain.

Nandi S, Yalda D, Lu S, Nikolov Z, Misaki R, Fujiyama K, Huang N.

Ventria Bioscience, 4110 North Freeway, Sacramento, CA 95834, USA.

In this paper, we show that recombinant human lactoferrin (rhLF) has been stably expressed at 0.5% brown rice flour weight for nine generations. Process development indicates that rhLF can be efficiently extracted from rice flour in 20 mM phosphate buffer (pH 7.0) containing up to 0.5 M NaCl and at a ratio of 1 kg flour to 10 L buffer. After solid/liquid separation, the extract can then be loaded directly onto an ion-exchange column and rhLF can be eluted using 0.8 M NaCl. The resulting rhLF is about 95% pure. A range of biochemical and biophysical analyses were carried out and results indicated that the purified rhLF was identical to its native human counterpart other than its glycosylation. Economic analysis shows that at 600 kg/year scale, the cash cost to produce 1 g of rhLF of pharmaceutical grade is US\$ 5.90. Analysis also indicates that the expression level has profound impact on costs related to planting, milling, extraction and purification, thus high level expression of recombinant protein in plants is one of the key parameters for the success of plant made pharmaceuticals.

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Protective role of human lactoferrin against invasion of Shigella flexneri [J Exp Med. 2001]

Large scale production of recombinant human lactoferrin in the milk of transgenic [Transgenic Res. 2005]

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Heterologous expression of biologically active porcine lactoferrin in *Pichia pastoris* yeast.

Vet Res Commun. 2005 Aug;29 Suppl 2:379-82. No abstract available.

PMID: 16244999 [PubMed - indexed for MEDLINE]

☐ **2:** Germini A, Rossi S, Zanetti A, Corradini R, Fogher C, Marchelli R. [Related Articles, Links](#)

Development of a peptide nucleic acid array platform for the detection of genetically modified organisms in food.

J Agric Food Chem. 2005 May 18;53(10):3958-62.

PMID: 15884823 [PubMed - indexed for MEDLINE]

☐ **3:** Reggi S, Marchetti S, Patti T, De Amicis F, Cariati R, Bembi B, Fogher C. [Related Articles, Links](#)

Recombinant human acid beta-glucosidase stored in tobacco seed is stable, active and taken up by human fibroblasts.

Plant Mol Biol. 2005 Jan;57(1):101-13.

PMID: 15821871 [PubMed - indexed for MEDLINE]

☐ **4:** Germini A, Zanetti A, Salati C, Rossi S, Forre C, Schmid S, Marchelli R, Fogher C. [Related Articles, Links](#)

Development of a seven-target multiplex PCR for the simultaneous detection of transgenic soybean and maize in feeds and foods.

J Agric Food Chem. 2004 Jun 2;52(11):3275-80. Erratum in: J Agric Food Chem. 2004 Jun 30;52(13):4350.

PMID: 15161182 [PubMed - indexed for MEDLINE]

☐ **5:** Zaina G, Morassutti C, De Amicis F, Fogher C, Marchetti S. [Related Articles, Links](#)

Endonuclease genes up-regulated in tissues undergoing programmed cell death are expressed during male gametogenesis in barley.

Gene. 2003 Oct 2;315:43-50.

PMID: 14557063 [PubMed - indexed for MEDLINE]

☐ **6:** Rossi L, Baldi A, Dell'Orto V, Fogher C. [Related Articles, Links](#)

Antigenic recombinant proteins expressed in tobacco seeds as a model for edible vaccines against swine oedema.

Vet Res Commun. 2003 Sep;27 Suppl 1:659-61. No abstract available.

PMID: 14535491 [PubMed - indexed for MEDLINE]

☐ **7:** Delledonne M, Porcari R, Fogher C. [Related Articles, Links](#)

Nucleotide sequence of the nodG gene of *Azospirillum brasilense*.

Nucleic Acids Res. 1990 Nov 11;18(21):6435. No abstract available.

PMID: 2243795 [PubMed - indexed for MEDLINE]

☐ **8:** [Calogero S, Albertini AM, Fogher C, Marzari R, Galizzi A.](#)

[Related Articles, Links](#)



Expression of a cloned *Bacillus thuringiensis* delta-endotoxin gene in *Bacillus subtilis*.

Appl Environ Microbiol. 1989 Feb;55(2):446-53.

PMID: 2541663 [PubMed - indexed for MEDLINE]

☐ **9:** [Bozouklian H, Fogher C, Elmerich C.](#)

[Related Articles, Links](#)



Cloning and characterization of the *glnA* gene of *Azospirillum brasilense* Sp7.

Ann Inst Pasteur Microbiol. 1986 Jul-Aug;137B(1):3-18.

PMID: 2893582 [PubMed - indexed for MEDLINE]

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☐ **1:** [Plant Mol Biol. 1997 Jul;34\(4\):613-27.](#)

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Transcription of genes for conglutin gamma and a leginsulin-like protein in narrow-leaved lupin.

Ilgoutz SC, Knittel N, Lin JM, Sterle S, Gayler KR.

Department of Biochemistry and Molecular Biology,
University of Melbourne, Parkville, Victoria, Australia.

The expression of genes encoding conglutin gamma and a leginsulin-like protein has been examined in narrow-leaved lupin, *Lupinus angustifolius* L. Conglutin gamma is a homologue of basic 7S globulin (Bg), the insulin and leginsulin binding protein from soybean. Accumulation of conglutin gamma mRNA, as assessed by northern assays and reverse-transcription PCR, was tightly regulated both spatially and temporally in lupin plants and was detected almost exclusively in developing seeds. Similar tissue and temporal specificity was demonstrated when 1.8 kb of the promoter region from the conglutin gamma gene was used to drive the expression of a beta-glucuronidase reporter gene in transgenic plants. In stably transformed tobacco the conglutin gamma promoter produced strong, temporally regulated and seed-specific expression of the reporter gene which was localised to the embryo tissues and to a layer of cells adjacent to the seed coat. A truncated 0.29 kb promoter fragment produced much reduced levels of expression and a loss of embryo specificity. Leginsulin-like mRNA was similarly detected in lupins only in developing seeds. The leginsulin-like gene detected in *L. angustifolius* showed 96% sequence identity to leginsulin from soybean within the 280 bp region amplified from lupin by PCR. The results demonstrate that both components of a Bg-leginsulin putative signal transduction pathway are present in the seeds of lupin.

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Deletion analysis and localization of SbPRP1, a soybean cell wall protein gene, in roots of transgenic tobacco and cowpea. [Plant Mol Biol. 1993]

A novel seed protein gene from *Vicia faba* is developmentally regulated in transgenic tobacco and *Arabidopsis* plants. [Mol Cell Biochem. 1991]

Expression patterns and subcellular localization of a 52 kDa sucrose-binding protein homologue of *Vicia faba* (VfSBPL) suggest different functions during development. [Plant Physiol. 2001]

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